25X1

b. It is the opinion

4. Battery failure was due to using an old battery that

5. Weather conditions were not ideal. Visibility was excellent although much shimmer caused by conversion currents

had been subjected to vibrational testing.

was apparent to even the naked eye.

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b. It is the opinion of the writer that 8 days would have been entirely adequate for this training.

c. The information gained from this instruction should permit the student to perform any maintenance and operation required provided suitable tools are at hand.

TSS/		

25X1

Distribution:

9rig. - P-101B

1 - RTW

1 - Chrono

TSS/APD/RTW/bb (1 June 56)

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C. Wisi

- 2 -

TASK ORDER NO. 4

TRAINING SCHEDULE



27 March 1956

	A. Development		
	1.	Sources - desium vapor, concentrated are (kanon, zirconium). [filament type	
	*** •	Modulation methods - modulation of arcs, Kerr cell, Lichtsprecher	
21:d day - AM	3.	Detectors - photo conductive cells; PbS, PbT, PbSe, photo multipliers, bolometers	
274	4.	Mirrors - Freenel lens, mengin, parabolic	
	5.	Power Sources - mercury cells, engine generator, storage batteries	25 X 1
3rd dey - AM	Equ	alpment Description	05)/4
	1.	Cytical System - beam width, PbS cell, transfer mirror, range	25 X 1
PF	3,	Modulator	
	. 3.	Infrared Viewer - image convertor, high voltage supply, construction	
uch day - AM	ů.	Amplifier and Power Supply - response, cell blas, limiter	25 X 1
? स	5.	Battery Charger - cutoff	
	6.	Miscellaneous - telescope, batteries	

A. Laboratory Discussion

- Locating the equipment operating limitations; effects of atmospherics, noise. absorption. sunlight. minimum operating temperature
- 2. Setting up the equipment

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Task Order No.

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Training Schedule

5th day - PM

- 3. Find Operation daytime method, nightime method
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- 4. General Operation use of microphone, modulation level, how to ennunciate, use of keg
 - 5. Charging batteries

8th day (To be rescheduled for any succeeding day if weather does not permit)

D. Field Demonstration

7th day - AM III. Maintenance

- A. General lamp life, tattery life, cleaning mirror,
- B. Trouble shooting fuses, check modulation, galvanometer, amplifier, viewer
- PM G. Testing check for galvanometer alignment, lamp alignment, vacuum range test, frequency response, check battery cutoff, individual cell voltage
- 7th day AM

PM

- D. Replacement of parts removal of amplifier, lamp, optical plate, objective mirror, reticle lamps, tatteries, galvanometer, viewer, image tube
- E. Collimation how to collimate viewer, telescope
- 6th day AM
- f. Alignment of optics receiver-transmitter exis collimation, objective mirror focus, galvanometer and lamp alignment, viewer objective and reticle focus

PM

0. Storage - maximum and minimum temperature, batteries

Ath day

IV. General Discussion

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